

Application No.: 10/781,809

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A semiconductor device comprising:

a substrate which has an actual element region including active areas and has a dummy pattern region including dummy patterns, and in which trenches are formed in the actual element region and the dummy pattern region;

semiconductor elements provided over the active areas of the substrate;

a first embedded insulating film, provided in the trenches within the actual element region, for isolating the semiconductor elements adjacent to each other; and

a second embedded insulating film, provided in the trenches within the dummy pattern region, for surrounding the dummy patterns,

wherein the widthwise size of each dummy pattern is four times ~~or less~~ of the depth of each trench or less,

wherein each dummy pattern has a rectangular shape in plan view,

wherein a shorter side of the rectangular shape corresponds to the widthwise size of the dummy pattern, and

wherein a longer side of the rectangular shape is greater than the widthwise size of the dummy pattern by three times or more.

2. (Cancelled)

3. (Original) The semiconductor device of Claim 1,

wherein the widthwise size of each dummy pattern is greater than 0 μm , and is equal to or less than 1.0 μm .

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4. (Currently Amended) The semiconductor device of Claim 1,
wherein given that regions of the substrate except the active areas are isolation regions,
the proportion of the dummy patterns to ~~[[in]]~~ the isolation regions in plan view is ~~between or~~
~~equal to~~ 15 % or more and 80 % or less.

5. (Withdrawn) A method for fabricating a semiconductor device, the method
comprising the steps of:

a) forming trenches in an actual element region and a dummy pattern region of a
substrate, the actual element region including active areas, the dummy pattern region including
dummy patterns;

b) depositing an insulator over the substrate, thereby forming an insulating film that fills
at least the trenches; and

c) removing a portion of the insulating film protruded from the trenches, thereby forming,
in the trenches within the actual element region, a first embedded insulating film for isolation,
and forming, in the trenches within the dummy pattern region, a second embedded insulating
film for surrounding the dummy patterns,

wherein the widthwise size of each dummy pattern is four times or less of the depth of
each trench.

6. (Withdrawn) The method of Claim 5,
wherein each dummy pattern has a rectangular shape in plan view,
wherein a shorter side of the rectangular shape corresponds to the widthwise size of the
dummy pattern, and

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wherein a longer side of the rectangular shape is greater than the widthwise size of the dummy pattern by three times or more.

7. (Withdrawn) The method of Claim 5,
wherein the widthwise size of each dummy pattern is greater than 0 μm , and is equal to or less than 1.0 μm .

8. (Withdrawn) The method of Claim 5,
wherein given that regions of the substrate except the active areas are isolation regions, the proportion of the dummy patterns in the isolation regions in plan view is between or equal to 15 % and 80 %.

9. (Withdrawn) The method of Claim 5,
wherein after the step b) has been performed, portions of the insulating film located over the dummy patterns each have a triangular shape in cross section taken along the shorter side of each dummy pattern.

10. (Withdrawn) The method of Claim 5,
wherein in the step c), the insulating film is polished by chemical-mechanical polishing using a ceria slurry.